

PEER-REVIEW REPORT

Name of journal: *World Journal of Orthopedics*

Manuscript NO: 82703

Title: Unhappy Triad of the Knee: What Are the Current Concepts and Opinions?

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06467206

Position: Peer Reviewer

Academic degree: PhD

Professional title: Postdoc

Reviewer's Country/Territory: China

Author's Country/Territory: Iran

Manuscript submission date: 2022-12-26

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-01-09 03:39

Reviewer performed review: 2023-01-11 09:05

Review time: 2 Days and 5 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

General comments: This review article presented the development of the definition of the “Unhappy Triad of the Knee” and the commonly used clinical treatments for it. The topic is appealing to me. The writing is concise and clear. However, the language was suggested to be further checked by a native English speaker. It should be noted that line numbers were not added by the authors, so the reviewer has added them to facilitate a better presentation of the comments. Please see my specific comments as below: Specific comments: The authors can consider to put the “anterolateral structures” in the Keywords. Line 66: There is an extra period in the end of this sentence. Line 69: Please insert references to this statement. Line 77: Please consider reorganizing this sentence. Do the authors mean that the definition of “injury of the medial meniscus” might have been misunderstood? Line 79-81: Can the authors try to explain more about this sentence? It is a little bit hard to follow the meaning. Line 99-100: Please check the integrity of this sentence. Line 101: typo in “78%”. Line 109: The authors stated that recent studies showed more dominant lateral meniscus injuries than the medial meniscus, could they please try to present some more details? For example, what are the proportions for the

medial and lateral meniscus injuries respectively in the patients with an ACL injury?
Line 128-130: Can the authors explain why the valgus stress test is the key element
comparing with the other tests such as pivot shift test? Line 132: Can the authors try to
replace the subtitle with a more precise one?

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Reviewer's code: 06467199

Position: Peer Reviewer

Academic degree: DPhil

Professional title: Researcher

Reviewer's Country/Territory: Iran

Author's Country/Territory: Iran

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Reviewer accepted review: 2023-01-10 19:52

Reviewer performed review: 2023-01-18 16:00

Review time: 7 Days and 20 Hours

Scientific quality	<input checked="" type="radio"/> Grade A: Excellent <input type="radio"/> Grade B: Very good <input type="radio"/> Grade C: Good <input type="radio"/> Grade D: Fair <input type="radio"/> Grade E: Do not publish
Novelty of this manuscript	<input type="radio"/> Grade A: Excellent <input checked="" type="radio"/> Grade B: Good <input type="radio"/> Grade C: Fair <input type="radio"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="radio"/> Grade A: Excellent <input checked="" type="radio"/> Grade B: Good <input type="radio"/> Grade C: Fair <input type="radio"/> Grade D: No creativity or innovation

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Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Summary The authors have described the unhappy triad (ACL, MCL, and medial meniscus injuries). They have also stated it is possible that the lateral meniscus and anterolateral complex are also damaged, which changes the definition of damaged structures in the unhappy triad. Finally, the authors concluded that the unhappy triad is associated with concomitant ACL, MCL, lateral and medial meniscus injuries and is mostly associated with the anterolateral complex of the knee. The results of this study will progress in the diagnosis of affected structures in the terrible triad and improve clinical outcomes in evaluation, assessment, and diagnosis. In my opinion, there are some concerns in the manuscript that, if addressed, would improve the quality of the manuscript.

Abstract Please add “anterolateral complex” to the keywords.

Overview “However, arthroscopy studies showing the higher prevalence of LM tears shifted this dominance”. The reference concerning this topic date back to the year 1994. The authors should integrate relevant recent research regarding this aspect. “78% of MCL grade III injuries are associated with ACL injuries”. Please modify the numerical quantity. “The mechanism of injury in the unhappy knee triad is sudden valgus impact with external



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rotation". It seems that during the knee valgus mechanism, in addition to external rotation, internal rotation is also effective, referenced by Ferretti et al. (2018). Please correct this if possible.